

The exact method of analyzing ...

31318
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D201/D305

$$\begin{cases} |\alpha_0 \Delta \gamma_2 [2N-1]| \geq r_0 \gamma_2, \\ |\Delta \gamma_3 [2N-1]| < |\Delta \gamma_1 [N-1]|. \end{cases} \quad (15)$$

$$(16)$$

satisfy inequalities (13) and (14) with $\gamma \geq C > 0$. The parameters N and C determine also the hunting losses D. The self-oscillating state will exist only if stable. The conditions of "local" stability of the periodic state in the given system is carried out as shown by Yu.I. Neymark (Ref. 4: Avtomatika i telemekhanika, vol. XIV, no. 5, 1953), by considering in a closed loop sub-system consisting of a relay and the pulse element as shown in Fig. 7. For this sub-system the characteristic

$$\sum_p W_p e^{ip} (K_p + L_p + M_p) = 0; \quad (20)$$

is derived where

$$K_p = A^2 - \frac{e^{-2Nq_p} (e^{Nq_p} - 1)}{(1 + e^{q_p}) (z + e^{-q_p})},$$

$$L_p = \sum_v \sum_k \frac{R_v R_k}{e^{kq_p} - e^{N(v, q_p)}} \left[\frac{e^{kq_p - 2Nq_p} (e^{Nq_p} - 1)^2}{(1 + e^{q_p}) (z + e^{-q_p})} - \right.$$

Card 3/5

The exact method of analyzing ...

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$$M_1 := 2A \sum_i \frac{B_i}{e^{\lambda t_p} - e^{\lambda t_s}} \left[\frac{e^{t_s - 2t_p N} (e^{Nt_p} - 1)^2}{(1 + e^{(t_s - t_p)N})(z + e^{-t_s N})} - \right. \\ \left. - \frac{e^{t_s - 2t_p N} (e^{Nt_p} - 1)^2}{(1 + e^{t_p N})(z + e^{-t_s N})} \right].$$

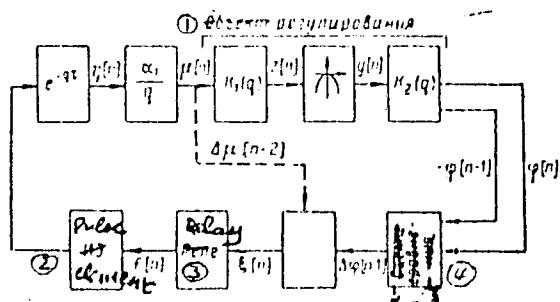
The periodic movement of the system is stable if all roots of Eq. (20) lie within the unit circle $|z| \leq 1$. There are 7 figures and 4 Soviet-bloc references.

Card 4/5

The exact method of analyzing ...

Fig. 1.

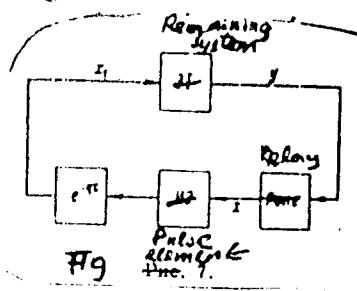
Legend: 1 - System to be controlled; 2 - pulse element;
3 - relay; 4 - comparison circuit.



Card 5/5

1-018
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Fig. 7.



5/044/62/000/011/C58/C54
A060/A000

AUTHOR: Benua, Ye. Yu.

TITLE: Self-oscillation ranges in switching systems of extremal regulation with lag

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1962, 54 - 55, abstract 11769 (Uen. zap. Leningr. gos. ped. In-ta im. A. I. Gertsen'a, 1961, v. 216, 89 - 117)

TEXT: The author considers a system of differential equations with a lagging argument which differs from a linear equation with constant coefficients by the presence in the right-hand member of two nonlinear functions, each of which is a function of one variable. The first nonlinear function is a parabola. The second function is a switching-type function (it takes only two values, which replace each other when one of the coordinates of the system reaches a fixed value). The method of matching is used to determine the symmetric periodic solutions, and their stability is investigated.

[Abstracter's note: Complete translation]

M. A. Ayzman

Card 1/1

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENIA, IU.IU.

PT-245 (On the problem of underwater wings for ship propulsion) K voprosu o
dvizhenii po vode na podvodnykh kryl'ikh.
Sudostroenie, 8(2): 92-97, 1938

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENUA, Yu.Yu., insh.

New river fireboat. Sudostroenie 24 no.5:1-5 My '59. (MIRA 11:6)
(Fireboats)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

BENUA, Yu. Yu., inzh.

Propulsion of ships on an air cushion. Sudostroenie 27
no.5:2-9 Ny '61. (MIRA 14:6)
(Ground-effect machines)
(Planing hulls)

BENUA Yuliy Yul'yevich; KORSAKOV, Vadim Mikhaylovich; ABDEYEV, G.K.,
kand. tekhn. nauk, retsenzent; LEPINSKIY, V.A., inzh.,
retsenzent; ASHIK, V.V., prof., nauchnyy red.; STOLYARSKIY,
L.L., red.; KRYAKOVA, D.M., tekhn. red.

[Vessels on an air cushion] Suda na vozdukhnoi podushke. Leni-
grad, Sudpromgiz, 1962. 119 p. (MIRA 16:3)
(Ground-effect machines)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

KLUSHIN, D.N.; BENJUNI, A.A.

Recovering tin from poor ore products. Biul. TSIIN tavet. met.
no. 11:14--18 '58. (MIRA 11:?)
(Tin--Metallurgy)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

BENUNI A. A.

BUDNIKOV, P.P., akademik; POLINKOVSKAYA, A.I., kand.tekhn.nauk;
BENUNI, A.A., inzh.; PETRIKHINA, G.A., inzh.

Expanding clays and volcanic rocks in the fluidized bed.
Stroi.mat. 5 no.9:31-33 S '59. (MIR 12:12)

1. AN USSR, chlen-korrespondent AN SSSR (for Budnikov).
(Building materials) (Fluidization)

BENUNI, A. A., Cand Tech Sci -- (diss) "Sulfidization and the distillation of tin in boiling layers applicable to materials containing small amounts of tin." Moscow, 1950. 11 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Inst of Non-ferrous Metals im M. I. Kalinin); 150 copies; price not given; (KL, 17-60, 151)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENNI, A.A., TSEYDLER, A.A.

Determining the vapor pressure of tin sulfides. Sbor. nauch.
trud. GINTSVETMET no.15:196-204 '59. (PIRA 14:4)
(Tin sulfide)
(Vapor pressure)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENUNI, A.A.; TSEYDLER, A.A.

Sulfadizing of tin. Sbor. nauch. trud. GINTSVETMET
no.15:205-215 '59. (MIRA 14:4)
(Tin--Metallurgy)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

2/13/69 D. J. COOK, A. A.
ADCA A11

AUTHOR Sokol, A. A., Freyder, A. A.

TITLE Determining vapor tension of tin sulfide

REF ID: A1 Informatsionnyj zhurnal, Metallofizika, no. 1, 1970, p. 103-106. (Tr. v. Gos. nauch.-tekhn. in-ta po metallofizike, no. 1, 1970.)

TEXT Vapor tension of artificially prepared SnS was determined by the method of effusion into a vacuum and subsequent cooling of the condensate in liquid nitrogen. Experimental results and data available in literature are combined in equation $\log_{10} P_{\text{SnS}} = - (10470/T) + 7.988$, applicable to the range from 0 to 1000°K.

A. A. Freyder

[Additional text noted: Complete translation]

ADCA A11

BEMNI, A.A.; SELIVOKHIN, P.I.

Lead recovery from hard-to-concentrate ores by roasting in a
fluidized bed. Tsvet. met. 34 no.12:27-31 D '61. (MIRA 14:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh
metallov.

(Lead--Metallurgy)
(Fluidization)

KLUSHIN, D.N.; EENUNI, A.A.; Prinimali uchastiye: BOGATINA, K.G.;
BOBYLEVVA, R.I.

Recovery of tin from lean, tin-bearing materials by the method
of reduction-sulfuration roasting in a fluidized bed. Sbor.
nauch. trud. Gintsvermetra no.18:339-349 '61. (MIRA 16:7)

(Tin--Metallurgy) (Industrial wastes)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

POLINKOVSKAYA, A.I., kand.tekhn.nauk; BENUNI, A.A., kand.tekhn.nauk;
PETRIKHINA, G.A., inzh.

The problem of the technology of obtaining keramzit "sand."
Sbor.trud.ROSNIIIMS no.19:113-127 '61. (MIRA 16:1)
(Keramzit)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

KLUSHIN, D.N.; BENUNI, A.A.; SELIVOKHIN, P.I.

Tin recovery from lean ores by volatilization with sulfidizing
reduction-roasting in a fluidized bed. TSvet. met. 35 no.5:
38-44 My '62. (MIRA 16:5)
(Tin--Metallurgy) (Fluidization)

BENUNI, A.A.; SELIVOKHIN, P.I.

Lead distillation from hard to concentrate ores by
roasting in a fluidized bed. Sbor. nauch. trud.
Gintsvetmeta no.23:106-114 '65.

(MIRA 18:12)

MAKIN, Anatoli Christofovich

High-speed methods of tunneling mine galleries. Sverdlovsk, Bel. nauch.-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Vol.6. 150 p. (1974).

TM-55.34

28

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENUNI, A. KH.

"Theory of Multitool Drilling." Sub 21 Nov 47, Inst of Mining, Acad
Sci USSR

Dissertations presented for degrees in science and engineering in
Moscow in 1947

SO: Sum No. 457, 18 Apr 55

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENUNI, A.KH.

Metody raboty novatorov-prokhodchikov Urala (Work methods of innovator-miners of the Urals)

Moskva, Metallur izdat, 1951. 223 p.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

ANTONOV, Boris Vladimirovich; BENUNI, A.Kh., redaktor; LUCHKO, Yu.V.,
redaktor izdatel'stva; KOVALENKO, V.I., tekhnicheskiy redaktor

[The setting of norms, and the organization of work and wages in
mines] Tekhnicheskoe normirovanie, organizatsiya truda i zarabot-
noi platy na rudnikakh. Sverdlovsk, Gos. nauchno-tekhn. izd-vo
lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie,
1956. 295 p.

(MLRA 9:7)

(Wages) (Mines and mineral resources--Production standards)

BENUNI, A.Kh.; GANSHTAK, V.I.

"Planning and economics in nonferrous metallurgy enterprises" by
A.I. But. Reviewed by A.Kh. Benuni, V.I. Ganshtak. Tsvet.met.
30 pp. 6:36-38 Je '57.
(Nonferrous metals--Metallurgy) (But, A.I.)

Metallurgy

137-1958-3-4334

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 55 (USSR)

AUTHORS: Benuni, A. Kh., Gavrilova, K. V.

TITLE: Methods for Consolidation of Progressive Operational Experience
in Industrial Copper-smelting Process Engineering (Metodika
obobshcheniya peredovogo opyta raboty v apparaturnykh
protsessakh medeplavil'noy promyshlennosti)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr. 66, pp 4-11

ABSTRACT: Material dealing with the operation of a reverberatory converter
at the Krasnoural copper smelting plant was studied and consolidated.
Best methods for the performance of labor operations were evolved,
together with optimal regimes for the technological process. In
order to minimize Cu losses in escaping gases and waste slags,
special graphs were developed for the loading processes of the
reverberatory furnace (with appropriate allowances for the
temperature regimen in the zone of fusion, and for chemical
composition of cinder) as well as for the optimal conditions for
the pouring of the converter slag into the furnace, the settling
process of the bath, and the discharge of the waste slags.

G. S.

Card 1/1

137-1958-3-4835

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 56 (USSR)

AUTHORS: Zinov'yev, Yu. N., Benuni, A. Kh.

TITLE: The Problem of Comprehensive Utilization of Ural Copper Ores (K voprosu o kompleksnom ispol'zovanii mednykh rud urala)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 66, pp 160-169

ABSTRACT: Bibliographic entry

Card 1/1

SEREDA, Boris Konstantinovich; SAZHIN, Dmitriy Ivanovich; BUBOK, Konstantin Grigor'yevich; BKNUNI, A.Kh., prof., reisenzent; DEMIKHOV, I.M., inzh., reisenzent; BAKIROV, U.Kh.; kand. tekhn.nauk, red.; KHEL'NIK, V.P., red.izd-va; ZEP, Ye.M., tekhn.red.

[Prevention and extinction by silting of endogenous fires originating during the mining of sulfide ores] Preduprezdenie i tushenie endogenykh pozharov na silivaniem pri razrabotke mestorozhdenii sul'fidnykh rud. Sverdlovsk, Gos. nauchno-tehn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1959. 307 p. (MIRA 12:8)
(Mine fires)

307/14480

PHASE I BOOK EXPLOITATION
Benni, Amayak Khristoforovich
Razvitiye tsvetnoy metallurgii v 1959-1965 gg. (Development of Nonferrous
Metallurgy From 1959 to 1965) Moscow, Metallurgizdat, 1960. 30 p. 2,650 copies
printed.
Ed.: S.A. Pervushin; Ed. of Publishing House: I.I. Pinegin; Tech. Ed.: P. G.
Isilent'yeva.

PURPOSE: This book is intended for technical personnel, planners, economists,
foremen, and workers at nonferrous and ferrous metallurgy establishments. It can
also be used as a textbook at schools of higher education and tekhnikums.

COVERAGE: The book outlines the basic directions in the development of nonferrous
metallurgy in the USSR for 1959-1965. The following problems are discussed: the
development of nonferrous metallurgy and its disposition during the current Seven-
Year Plan; the introduction of new techniques and advanced processing; the further
development of concentration, specialization, coordination, and combination; boost-
ing labor productivity; and efforts to achieve optimum economy of nonferrous,

card 1/3

Development of Nonferrous Metallurgy (Cont.)

SOV/4336

precious, and rare metals. No personalities are mentioned. There are 7 references, all Soviet.

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1. Development of Socialist Industry and the Role of Nonferrous Metals in the National Economy	7
2. Development of the Basic Branches of Nonferrous Metallurgy in the the Seven-Year Plan	13
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Card 2/3

ZENKOV, Leonid Filippovich; BENUNI, A.Kh., prof., red.; TSYMBALIST, N.N., red.izd-va; MATLYUK, R.M., tekhn.red.

[Technical norms in open-pit iron mines] Tekhnicheskoe normirovaniye na zhelezorudnykh kar'erasakh. Pod red. A.Kh.Benuni. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 166 p. (MIRA 13:6)
(Iron mines and mining--Standards)
(Strip mining--Standards)

PERVUSHIN, Sergey Alekseyevich, prof.; RACHKOVSKIY, Solomon Yakovlevich, prof.; GOL'BRAYKH, Semuil Yakovlevich, dotsent; MALINOVA, Rebekka Davydovna, dotsent; BYKOVA, Tat'yana Dmitriyevna, dotsent; BENUNI, A.Kh., prof., retsenzenter; GOLOVINSKIY, M.S., dotsent, retsenzenter; AVRUTSKAYA, R.F., red.izd-va; VAYNSHTEYN, Ye.P., tekhn.red.

[Economic aspects of nonferrous metallurgy in the U.S.S.R.] Ekonomika tsvetnoi metallurgii SSSR. Pod red. S.A. Pervushina i S.IA. Rachkovskogo. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 516 p. (MIRA 13:5)

1. Kafedra ekonomiki promyshlennosti Instituta tsvetnykh metallov imeni M.I. Kalinina (for Pervushin, Rachkovskiy, Gol'braykh, Malinova, Bykova). 2. Kafedra ekonomiki i organizatsii proizvodstva tsvetnoy metallurgii Ural'skogo (Sverdlovskogo) politekhnicheskogo instituta (for Benuni). 3. Glavnyy spetsialist Gosplan'a SSSR (for Golovinskiy).
(Nonferrous metals--Metallurgy) (MIRA 13:5)

BENUNI, Amayak Khrisjoforovich; ZONOV, S.K., retsenzent; KRYZHOVA, M.L.,
red. izd-va; TURKINA, Ye.D., tekhn. red.

[Reduction of industrial costs is a source for the growth of
national wealth] Snizhenie sebestoimosti produktsii - istochnik
rosta obshchestvennogo bogatstva. Sverdlovsk, Gos. nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii. Sverdlovskoe otd-
nie, 1961. 50 p. (MIRA 14:6)

(Costs, Industrial)

BENEDIK, ANATOLY ERIKSTOFOROVICH

THE DEVELOPMENT OF NON-FERROUS METALLURGY, 1950-1965.
MASHINOSTROYENIYE, U.S.S.R. JOURNAL PUBLICATIONS RESEARCH SERVICE,
1961.

65 P. (JP S: 4970; CSO: 1820-S)
TRANSLATED FROM THE ORIGINAL RUSSIAN: RAZVITIYE
TSVETNOY METALLURGII V 1950-1965 GG., MOSCOW, 1960.

BIBLIOGRAPHY: P. 65.

BENUNI, Amayak Khristoforovich; ZONOV, S.K., retsenzent; VERSHININ, A.M., red.; SKOROBOGACHEVA, A.P., red. izd-va; MATLYUK, R.M., tekhn. red.

[Revealing and using the industrial potentials of nonferrous metallurgy] Vyjavlenie i ispol'zovanie proizvodstvennykh rezervov tsvetnoi metallurgii. Sverdlovsk, Metallurgizdat, 1962.
230 p. (MIRA 15:12)
(Nonferrous metal industries—Management)

BENUNI, A. Kh.; KEL'BISINOV, S. Kh.; ZHUK, M. G.

Use of electron computer techniques for technical and economic
calculations in nonferrous metallurgy. TSvet. met. 35 no.10:4-8
O '62. (MIRA 15:10)

(Electronic calculating machines)
(Nonferrous metal industries)

BENUNI, Amayak Khrisťaforovič; PERVUSHIN, Sergey Alekseyevich;
GOLYNSKIY, M.S., red.; KOVALEVSKIY, M.A., red.izd-va;
ISLENT'YEVA, P.G., tekhn. red.

[Technical progress and increased labor productivity in the
nonferrous metallurgy of the U.S.S.R.]Tekhnicheskii progress i
povyshenie proizvoditel'nosti truda v tsvetnoi metallurgii
SSSR. Moskva, Metallurgizdat, 1963. 143 p. (MIRA 16:3)
(Nonferrous metal industries—Equipment and supplies)

Beruni, Amayak Khristoforovich

Tekhnicheskiy progress i povyseniye proizvoditel'nosti truda v tsvetnoy metallurgii
SSSR (by) A.K. Beruni (1) S.A. Pervishin. Moskva, Metallurgizdatm 1963.

147 p. tables.

Bibliography: p. (146)

NON-FERROUS METAL INDUSTRIES

LENUNI, Amayak Khristoforovich; KOVALEVSKIY, M.A., red.izd-va;
GINZBURG, R.Ya., tekhn. red.

[Ways to improve the utilization of the production funds
of nonferrous metallurgy enterprises] Puti luchshego ispol'-
zovaniia proizvodstvennykh fondov predpriatii tsvetnoi me-
tallurgii. Moscow, Metallurgizdat, 1965. 52 p.
(MIRA 17:1)

BENUNI, Amayak Khristoforovich; MASHKOV, A.N., red.; KOVALEVSKIY,
M.A., red.izd-va; GIPZIURG, R.Ya., tekhn. red.

[Determining the economic efficiency of technical decisions in nonferrous metallurgy] Opredelenie ekonomiceskoi effektivnosti tekhnicheskikh reshenii v tsvetnoi metallurgii. Moscow, Metallurgizdat, 1963. 54 p.
(MIRA 17:1)

BENUNI, Amayek Khristoforovich; MASHKOV, A.N., red.; KOWALEVSKIY,
N.A., red.izd-va; KOKOVINA, N.A., tekhn. red.

[Reducing production costs is the source for increasing the
national wealth] Snizhenie sebestoimosti produktsii --
istochnik rosta oshchestvennogo bogatstva. Moscow, Metal-
lurgizdat, 1963. 57 p. (MIRA 17:1)
(Nonferrous metal industries--Costs)

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CIA-RDP86-00513R000200020009-8

BRUNNI, A.Kh., prof.

Selecting an efficient weekly work schedule in connection with
the reduction of the working time. (For. nauchno-tekhnichesk.
politekhn. inst. no.122;286-294, '61.) (K-12)

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• The first part of the figure shows the results obtained by the proposed method. The second part shows the results obtained by the proposed method, the third part shows the results obtained by the proposed method.

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CIA-RDP86-00513R000200020009-8"

RENCH, A.Kh., prof.; GURFIL', B.L., inzh.

Bases for designing a matrix model of the production costs of a
mine. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:74-81 '65.
(MIRA 18:9)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.
Rekomendovana kafedroy ekonomiki organizatsii predpriyatii
tsvetnoy metallurgii.

MICHAEL F.

PA - ZTL

USSR/Welding - Arc

Feb 1947

"Arc Welding of Thin Steel Plate with Metallic
Electrodes," F Benur, 5 pp

"Morskoy Flot" Vol 7, No 2

Tables and schematic diagrams

ZTL

BENUSI, Luigi dr.

Epidemiology and prevention of viral hepatitis
(Botkin's disease). Shendet pop. 6 100.
(HEPATITIS, INFECTIONS)

BENUSSI, Luigj, kandidat i shkencave mjekesore.

A simple apparatus for the measurement of blood urea made of simple laboratory material. Bul. univ. shtet. Tirane [Mjek] 2:42-46 '63.

1. Laboratori qendror i prodhimeve dhe kerkimeve mikrobiologjike, Universitetit Shtetor te Tiranes (drejtore Hulo Haderi).

*

BENUSSI, Luigj, kandidat i shkencave mjek.

A simple apparatus made of ordinary laboratory material for the measurement of blood urea. Bul. univ. shtet. Tirane [Mjek] 2:42-46 '63.

BENUSSI, Silvio

Determination of the machining precision and adjustment level
of cutting machines. Gep 15 no.4:134-136 Ap '63.

1. Diósgyori Csapagygyar MEO vezetője.

Bulgaria/Military

B-557

BENVENISTI, Isak, Podpolkovnik/Med Serv; and Evgeniya Dobreva, scientific worker, are the authors of an article entitled "Useful Experiments With Hexachlorane (Kheksakhloranov) Insecticide Smokes Pots in the Campaign Against Blood-Suctorial Diptera." (Voenno Meditsinsko Delo, Sofia, May 61, pp 68-72)

24
(1)

BENVENISTI, I.

SURNAME, Given Names

Country: Bulgaria

Academic Degrees:

Affiliation: not indicated

Sources: Sofia, Khimiya, Vol IV, No 5, Sep/Oct 1961, pp 23-25

Data: "The Insecticidal Action of Certain Alkyl Iodides."

Authors:

BENVENISTI, I., Chemist, Junior Scientific Collaborator
DOBREVA, E., Biologist, Junior Scientific Collaborator

600 90143

TOMOV, A.; SPASOV, S.; BENVENISTI, I.

The use of fluorescent antibodies in the rapid diagnosis of
enteropathogenic coli bacteria. Suvar. med. 13 no.8:25-32 '62.

(FLUORESCENT ANTIBODY TECHNIC)
(ESCHERICHIA COLI INFECTIONS)

KIRCHEVA,S.; MICHAYLOV,St.; ALIPYEV,D.; BANKOV, St.; TSVETKOVA,L.;
BENVENISTI,R. (Bulgariya)

Nivaline electrophoresis; electrochemical, experimental, and
functional examinations. Vop.kur., fizioter. i lech. fiz.
kul't. 27 no.4:299-304 Jl-Ag'62 (MIRA 16:11)

1. Iz Nauchno-issledovatel'skogo instituta kurortologii i fizio-
terapii Narodnoy Respublikи Bulgarii (direktor - dotsent K.Kirchev.)

*

BENYAK, Bela (Jr)

"A caretaker is needed." Ujít lap 14 no.24:23 25 D '62.

1. Miskolc Varos Tanacs Vegrehajtobizottsaga IV. Ipari Osztalyanak
vezetője.

BELIKHIN, V.G.; N.M.-YAKIR, Yu.D.

Record indices achieved in mining operations. № 1' 41 no. 172-С3
pp. 165.
(MFA 13:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut informatsii i
tekhniko-ekonomicheskikh issledovanii ugol'noy promishlenosti.

"APPROVED FOR RELEASE: 03/13/2001

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Under Inst. Previous Detaining

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137-56-6-12155

Translation from *Reratativnyj zhurnal Metallurgiya*, 1958, Nr 6, p 140 (USSR)

AUTHORS Benyakovskiy, M.A., Shadrin, V.A., Kulikov, V.I.,
Uziverko, A.M., Kustobayev, G.G., Kochnev, M.F.,
Kutayev, Ya.S.

TITLE The Interrelation of the Pressure, the Pull, and the Thickness
of a Strip Subjected to Cold Rolling (Vzaimosvaz' davleniya,
natyazheniya i tolshchiny lenty pri khodnoy prokatke)

PERIODICAL Byul. nauchno-tekhn. inform. Ural'skiy nauch.-tekhn. inst. chernykh
metallov, 1957, Nr 3, pp 114-123

ABSTRACT A three-stand rolling mill of the MMK was employed during
research concerned with the effect of rolling (R) rate on the
thickness of a strip (S), the establishment of interrelation of
pressure and pull during cold R, and determination of the sig-
nificance of longitudinal and transverse thickness variations in
the S. A mathematical relationship is established between the
basic parameters of the technological process of cold R of a S.
It is established that variations in the tension of the strip mid-
way between the stands of a mill have a decisive effect on the
formation and magnitude of thickness variations in the S.

Card 1/2

137-58-6-12155

The Interrelation of the Pressure, the Pull, and the Thickness of a Strip (cont.)

Fluctuations of R rate at the MMK have practically no effect on the thickness of the S. Variations in the pull produce thickness variations in the S equivalent to 0.01-0.02 mm on the average.

54

¹ See also the discussion of the relationship between the concept of ‘cultural capital’ and the concept of ‘cultural value’ in the introduction to this special issue.

Card 2/2

BENYAKOVSKIY, M.A.

PA - 2380

AUTHOR:

BENYAKOVSKIY, M.A., KULIKOV, V.I., SHRADIN, V.A.,
KOLPAKOV, L.P., KUTUYEV, YE.S., KUSTOBAYEV, G.G., KOCHNEV, M.P.,
ESIPOV, I.V., PETROV, B.I.

TITLE:

Stress Conditions of Metal Deformation and Strip Rolling Procedure.
(Silovyye usloviya deformatsii metalla i rehimy prokatki lant,
Russian).

PERIODICAL:

Stal', 1957. Vol 17, Nr 1, pp 59 - 63 (U.S.S.R.).
Received: 5 / 1957

Reviewed: 5 / 1957

ABSTRACT:

On the Continuous cold rolling train of the Magnitogorsk Combine the metal pressure brought to bear on the rolls, the stress on the rolled piece between the roll stands of the the train, and the specific energy consumption when rolling bands of various sorts were investigated. For measuring the rolling pressure and stress measuring pressure cells with wire donors for the resistance were used. These cells and their mode of operation are described. Pressure and stress were measured when rolling carbon steels and special steels, and, at the same time, the power output was determined after the roll stands, and rolling velocity and thickness were measured after every roll stand. Calculation of the specific energy consumption in connection with band rolling was carried out according to the method developed by E.S.Rokotyan. Technological charts for the rolling of bands of different types were worked out. By means of these charts an optimal utilization of efficiency was made possible.

Card 1/2

PA - 2380

Stress Conditions of Metal Deformation and Strip Rolling
Procedure.

(3 tables, 4 illustrations, and 2 citations from works published
in Slav languages.)

ASSOCIATION: Ural Institute for Iron Ores and Metallurgical Combine of
Magnitogorsk.

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress.

Card 2/2

BENYAKOVSKY, M.A.

PAGE I BOOK EXPLOITATION 304/3226

Mashinostroitielskaya nauchno-tekhnicheskaya konferentsiya na temu:
"Dostizheniya doktirantury proektirovaniya."

Trudy [Transactions] of the Intercollegiate Scientific and Technical
Conference on Recent Achievements in the Rolling Industry
Leningrad, 1958. 251 p. 1,000 copies printed.

Sponsoring Agencies: Leningradskiy politekhnicheskiy institut im.
M. V. Lomonosova [Leningrad Polytechnical Institute im. M. V. Lomonosova],
Leningradskoye otdeleniye, and Nauchno-tekhnicheskoye obshch-
estvo metalurgov, Leningradskoye otdeleniye.

Harp. M.I., V.S. Sazanov, Doctor of Technical Sciences, Professor;
M.I. M.M. Pavlov.

PURPOSE: These proceedings of the conference are intended for
specialists in the rolling industry.

COVERAGE: The articles of this collection cover various theoretical
and practical problems of rolling such as: pressure, spread,
efficiency of rolls, determination of deformation, forces required,
press design, optimum conditions for rolling, experiences of
various plants, modernization of equipment, aluminum-clad steel,
and rolling of nonferrous metals. No personalities are mentioned.
References appear after each article.

Bonyakovskiy, M.A. [Uralskiy nauchno-issledovatel'skiy institut
Metalley, Sverdlovsk] (Ural Scientific Research Institute of Ferrous
Metals), Sverdlovsk Forces of Deformation of Metal and Auto-
mation of Band Thickness Control in Cold Rolling 164

Belashko V.I. and V.M. Sazanov. [Institut chernoy metallurgii
Akademiya Nauk SSSR (Institute of Iron and Steel Research, Academy of Sciences of the USSR)] Investigation of
Action of Force Concentration, and Action of Force in a Continuous
Hot Rolling Sheet Mill 197

Burenko, I.D. [Zavod Imeni Il'icha (Plant im. Il'icha)] Relation
Between Geometric and Weight Tolerances of Plate Steel 206

Bogoroditskiy, A.A. [Leningradskiy politekhnicheskiy institut
im. M.I. Kalinin] Bending Forces in a Structural Mill 214

Chubarev, A.P., Ya.L. Vaynshteyn, and D.M. Matinikov. [Enterprise-
rovodnyy metallurgicheskiy institut] (Enterpriserovodnyy Metallur-
gical Institute) Wall Thickness Variation of Large Diameter
Pipe 223

MENYAKOVSKIY, M.A., dotsent, kand. fiz.-mat.nauk

Breakdown of metals caused by cyclic loading. Izv. vys. ucheb. zav.; mashinostr. no.10:124-132 '58. (MIRA 12:11)

1.Bryanskij institut transportnogo mashinostroyeniya.
(Metals--Testing)

S/137/60/000/010/012/040
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 11⁴,
23313

AUTHORS: Benyakovskiy, M.A., Volegov, V.P.

TITLE: The Forward Flow on Continuous Cold Rolling Mills

PERIODICAL: Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chern. metallov,
1959, No. 6, pp. 73 - 76

TEXT: The imprint method was used to study the forward flow when rolling
600 mm wide strips from 3.0 to 1.6 and from 1.6 to 0.5 mm on a continuous three-
stand four-high mill with 520-mm-diameter working rolls.

L.M.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

TRET'YAKOV, Andrey Vladimirovich; RADCHENKO, Konstantin Michaylovich;
BENYAKOVSKIY, M.A., red.; TSYMBALIST, N.N., red.izi-va;
TURKINA, Ye.D., tekhn.red.

[Changes in the mechanical properties of metals and alloys under
the effect of cold rolling] Ismenenie mekhanicheskikh svoistv
metallov i splavov pri kholodnoi prokatke. Sverdlovsk, Gos.
nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
Sverdlovskoe otd-nie, 1960. 84 p. (MIRA 13:5)
(Metals--Cold working)

BENYAKOVSKIY, M A

PHASE I BOOK EXPLOITATION SOV/4739

Suyarov, Dmitriy Il'ich, and Mark Aleksandrovich Benyakovskiy

Nastroyka listoprotkatnykh stanov (Setting-Up of Sheet Mills) Sverdlovsk,
Metallurgizdat, Sverdlovskoye otd-niye, 1960. 183 p. 4,300 copies printed.

Ed.: A.G. Stukach; Ed. of Publishing House: A.P. Skorobogacheva; Tech. Ed.:
Ye.D. Turkina.

PURPOSE: This book is intended for technical personnel in sheet rolling mills;
it may be useful to senior students in schools of higher education specializing
in rolling.

COVERAGE: The authors present fundamental data on the setting-up of sheet rolling
mills. Methods for setting-up two-high, three-high, four-high and continuous
hot-and cold-rolling mills are described. The interaction of forces and peculiari-
ties of the rolling process in each type of mill are taken into account. The
authors also describe instruments and devices used for setting-up sheet rolling
mills and for controlling their operation. The book is based on an investigation
carried out at certain plants in the Urals and Siberia by the Ural'skiy-nauchno-
issledovatel'skiy-institut chernykh metallov (Ural Scientific Research Institute
of Ferrous Metals). No personalities are mentioned. There are 70 references:
Card 1/4

S/137/61/000/007/025/072
A060/A101

AUTHORS: Benyakovskiy, M. A.; Suyarov, D. I.; Volegov, V. P.

TITLE: Calculation of reduction schedules and of roll profile for coil rolling mills

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1961, 8, abstract 7E47
("Tr. Konferentsii: Tekhn. progress v tekhnol. prokatn. proiz-v".
Sverdlovsk, Metallurgizdat, 1960, 440-443)

TEXT: An equation for the roll profile and an equation expressing the linear dependence between the rolling stress and the strip thickness (the line of equal relative reduction) are derived on the basis of the condition for uniform reduction in width of a strip. A graphical method is proposed for determining the reduction schedule for cold rolling of tapes with thickness 0.28 mm from strip steel 08KII (08kp) with initial dimensions 2.2 x 735 mm. The method is based on the simultaneous solution of the lines of equal relative reduction in strip width and the reduction curves.

V. Pospekhov

[Abstracter's note. Complete translation]

Card 1/1

3/130/00/000/000/011

AUTHORS: Benyakovskiy, M. A., Volegov, V. P.

TITLE: Intensifying Reduction Conditions in Cold Rolling of Strips

PERIODICAL: Metallurg, 1960, No. 6, pp. 25-26

TEXT: The authors together with V. K. Fridrikhsen studied the possibility of intensifying reduction conditions in cold rolling of carbon and alloy steel strips on the 740-rolling-mill. The mill consists of 3 stands, and is intended for rolling 650 mm wide strips of 2.5-4.5 mm initial and 0.5-2.0 mm final thickness. Data on rolling conditions of basic strip dimensions (Table 1) show that in some cases the metal pressure on the rollers and the motor loads were below the permissible values. To determine a possible raise in the efficiency of the mill experimental rolling with greater reduction or without intermediate annealing was carried out. It was established that in rolling 40, 30ХГСА (30KhGSA) and 65Г (65G) steel strips intensified reduction did not cause an increase in the metal pressure on the rollers and in the motor load above the permissible amounts. The experiments proved moreover that in rolling 08Kп (08kp) steel strips of 2.5 x 600 initial and 0.8 x 600 final dimensions in one pass, the motor load of the first stand exceeded the nominal value. As a

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8/13/01/03/00/00/00/011

Intensifying Reduction Conditions in Cold Rolling of Strips

result of the tests 40 and 30KhGSA steel strips were rolled not in two but in one pass, in accordance with the reduction condistions given in Table 2. For rolling 20sp and 08kp steel strips metal of 2.0 instead of 2.5 mm thickness was used and, as a result steel, strips of required demensions were obtained in one pass. The use of one pass instead of two raised considerably the efficiency of the mill. There are 2 tables.

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov
(Ural Scientific Research Institute of Ferrous Metals)

Card 2/2

S/130/60/000/010/007/009/XX
A006/A001

AUTHORS: Benyakovskiy, M. A., Volegov, V. P.

TITLE: Reduction Conditions and Roller Profiles in Continuous Tin Rolling

PERIODICAL: Metallurg, 1960, No. 10, pp. 22-23

TEXT: The authors discuss a method suggested by M. A. Leychenko in Metallurg # 4, 1960, who proposed to stretch the strip edges more than its middle portion on the 3rd, 4th and 5th stands in the rolling process. For this purpose he recommended to produce a strip with a bi-concave contour on the first and second stand and to conduct the rolling process on the following stands in rollers with cylinder-profiled barrels. The authors hold that the method suggested by Leychenko is not based on the uniform stretching of the metal throughout the strip width on each stand and therefore cannot be used in tin plate rolling. Moreover, Leychenko did not give any indications as to the thermal conditions of the roller operation although the increased difference in temperature between the middle portion and the edges of 500-mm-diameter operating rollers is 2°C and that of 133-mm-diameter supporting rollers is 1°C, which fact would entail a total increase of concavity of the whole roller system by ✓

Card 1/4

S/130/60/000/010/007/009/XX
A006/A001

Reduction Conditions and Roller Profiles in Continuous Tin Rolling

0.04 mm. There are also recommendations missing on the magnitude of rolling forces determining the metal deformation and, consequently, the contour of rollers during rolling process. The distribution of reduction over the stands suggested by Leychenko was taken from foreign practice and had no connection with the initial contour of rollers or roller profiles during rolling process. The data submitted (Table 1) are not typical for foreign mills. The authors say that the reduction conditions and the initial contour of rollers when rolling thin sheets must be determined from the correlation and the temperature conditions of rollers, metal pressure on them, the difference in the transverse strip thickness etc. The correlation of those technological parameters must be based on the uniform reduction of the strip across the width, i. e. on a uniform reduction of the middle portion and the edges. The Ural'skiy institut chernykh metallov, considering the aforementioned deformation conditions, developed in 1958 a reduction technology and roller contours for rolling tin plate on a five-high 1200 mill at the Magnitogorsk Metallurgical Combine. As a result rejects due to warping were reduced by a factor of 2 and rupture of the strip due to non-uniform stretching was eliminated. The technology developed is given in Table 2.

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S/130/60/000/010/007/009/XX
A006/A001

Reduction Conditions and Roller Profiles in Continuous Tin Rolling

Table 2. Reduction conditions developed by UICM for tin plate rolling

Number of stand	Metal thickness mm		Reduction during one pass		Total reduction %	Initial cavity of the upper operating roller barrel, mm	Temperature difference of the center and edges of the barrel, °C		Rolling force,
	Prior to the pass	After the pass	mm	%			operating roller	supporting roller	
1	2.2	1.6	0.6	27	27.0	0.09	0	0	500
2	1.6	1.07	0.53	33	51.3	0.10	5	2	760
3	1.07	0.62	0.45	42	72.0	0.10	10	4	910
4	0.62	0.42	0.20	33	81.0	0.10	7	3	725
5	0.42	0.28	0.14	33	87.3	0.14	7	3	800
1	2.2	1.58	0.62	28	28.0	0.10	0	0	620
2	1.58	1.02	0.56	35	53.5	0.10	6	2	800
3	1.02	0.58	0.44	43	73.6	0.10	11	4	935
4	0.58	0.39	0.19	33	82.2	0.10	8	3	750
5	0.39	0.25	0.14	33	88.7	0.14	8	3	825

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S/130/60/000/010/007/009/XX
A006/A001

Reduction Conditions and Roller Profiles in Continuous Tin Rolling

Remark: The lower operating rollers are cylindrical.
There are 2 tables.

ASSOCIATION: Ural'skiy institut chernykh metallov (Ural Institute of Ferrous
Metals)

Card 4/4

TRET'YAKOV, Andrey Vladimirovich; LOKSHIN, Boris Yevgen'yevich;
BENYAKOVSKII, Mark Aleksandrovich; DRUZHININ, N.N., ratsenzent;
DRAIYUK, B.N., red.; CHAPAYKINA, F.K., red.izd-va; TURKINA, Ye.D.,
tekhn.red.

[Specific power consumption in cold rolling] Udel'nyi raskhod
energii pri kholodnoi prokatke. Sverdlovsk, Gos.nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii. Sverdlovskoe
otd-nie, 1961. 83 p. (MIRA 14:6)
(Rolling (Metalwork))

BURDAKOV, Dmitriy Dmitriyevich; TSUKERNIK, Zinoviy Grigor'yevich; YEL'KIN, S.A., inzh., retsenzent; ROMANOV, A.A., kand. tekhn. nauk, retsenzent; BENYAKOVSKIY, M.A., inzh., retsenzent; GOL'DSFTEYN, M.I., kand. tekhn. nauk, retsenzent; DUBROV, N.F., nauchnyy red.; SYRCHINA, M.M., red. izd-va; KRYZHOOVA, M.L., red. izd-va; TURKINA, Ye.D., tekhn. red.

[Metallurgy of ferrrous metals; manual for the training of skilled workers in industry] Metallurgiya chernykh metallov; uchebnoe posobie dlia podgotovki kvalifitsirovannykh rabochikh na pravivodstve. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 437 p. (MIRA 14:11)
(Iron--Metallurgy) (Steel--Metallurgy) (Metalwork)

11300 1496, 1413, 1454

22317

S/133/61/000/004/006/015

A054/A127

AUTHORS: Suyarov, D. I., Candidate of Technical Sciences; Benyakovskiy, M. A., Engineer, and Chubrikov, L. G., Engineer

TITLE: Certain characteristics of rolling between rolls pressed together beforehand

PERIODICAL: Stal', 1961, no. 4, 336 - 339

TEXT: When rolling thin strips on rolls which have been pressed together before the strip enters the mill, the edges of the roll-bodies remain, in some cases, in contact with each other during rolling. The calculations referring to the forces active in this process on the plastic deformation of the stand, the relation between these forces and the thickness of the outgoing strip, as well as the experience gained, all show that the stability of the stand is greater when the edges of the rolls are in contact during the rolling process than when there is a gap between the roll-bodies. When operating with the edges of roll-bodies in contact, greater accuracy is obtained, thinner strips are produced, with the same pressure as on used conventional roll stands. It is also possible to increase the accuracy of

X

Card 1/3

22317

Certain characteristics of rolling between...

S/133/61/000/004/005/015
A054/A127

the strip thickness without having to readjust the rolls during the process. This method is, in fact, used already to roll foils with tolerances of the order of microns, (Ref. 5: I. A. Voronov, S. N. Chernyak, et al., Tsvetnyye metally, 1957, no. 5). The same advantages may be achieved for rolling thicker strips also. In this case the contact between the roll-barrels is effected by flanges mounted at the barrel-edges. The equations used in calculating various factors of the rolling process with the roll-edges in contact, can be used for this case as well, by replacing the value of the barrel-length by that of the flange-width. The graphical representation of rolling strips with flanged rolls shows that the disconnection of the flanges takes place at a greater thickness of the outgoing strip the narrower the strip and the greater the compression of the rolls. There are 2 figures and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Ural'skiy filial AN SSSR (Ural Branch of the Academy of Sciences USSR) and Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (Ural Scientific Research Institute of Ferrous Metals)

Card 2/3

S/130/63/000/001/003/008
A006/A101

AUTHORS: Benyakovsky, M. A., Chief of the TsZL sheet-rolling laboratory,
Sedov, V. I., Senior Master of the mill, Toropov, G. M., Research
Engineer at TsZL

TITLE: Assimilation of plate rolling on the 2800 mill

PERIODICAL: Metallurg, no. 1, 1963, 22 - 23

TEXT: The 2800 plate rolling mill became operative at the Cherepovets metallurgical plant in 1959. It is intended for rolling 8 - 50 mm thick, 1,000 - 2,520 mm wide and up to 18.5 mm (?) long carbon and low-alloy steel plates, and 25 - 30 mm thick, 1,000 - 1,400 mm wide, low-carbon steel strips. The plates are rolled from slabs 120 - 250 mm thick, 700 - 1,500 mm wide and 1,500 - 2,300 mm long. They are heated to 1,200 - 1,280°C in continuous furnaces. After reduction of the lateral edges the slabs are rolled in the two-high roughing stands to the required width and are then rolled to the final length in a four-high stand. After rolling the plates are sprayed with water to cool down. The plates are then straightened, edged, and cut by two guillotine shears and a cutter disk. The authors stress the satisfactory team work

Card 1/2

Assimilation of plate rolling on the 2800 mill

S/130/63/000/001/003/008
A006/A101

of the work collective under the leadership of I. N. Konovalov, senior operator and honorary metallurgical worker. They brought about various improvements in the mill, including the redesign of the conductor beam on the roughing stand, a simplified design of the upper working roll conductor, and the mounting of a device for the measuring of the rolling force. As a result the efficiency of the mill increased by 25%, the amount of rejects was reduced by a factor of 2.5, and metal consumption decreased by 35 kg per one ton of finished plates. There is 1 table and 1 figure.

ASSOCIATION: Cherepovetskiy metallurgicheskiy zavod. (Cherepovets Metallurgical Plant)

Card 2/2

BENYAKOVSKIY, M. A.

Protection of a measuring apparatus during the use of bridge circuits. Zav. lab. 28 no.12:1525 '62.
(MIRA 16:1)

1. Bryanskij institut transportnogo mashinostroyeniya.
(Bridge circuits)

BENYAKOVSKIY, M.A.; MEL'NIKOV, O.A.; CHUKHLOVA, L.N.; GLUKHOV, S.K.

Improving the surface quality of hot-rolled strips. Metallurg
§ no.5:28-29 My '63. (MIRA 16:7)

1. Cherepovetskiy metallurgicheskiy zavod.
(Rolling(Metalwork)—Quality control)

BENYAKOVSKIY, M.A.

Stability of distortions connected with energy absorption. Izv. v/v.
ucheb. zav.; fiz. no.5:176-177 '63. (MIRA 16:12)

l. Bryanskij institut transportnogo mashinostroyeniya.

SUYAROV, Dmitriy Il'ich; SENYAKOVSKIY, Mark Aleksandrovich;
TRET'YAKOV, A.V. red.; VLADIMIROV, Yu.V., red. izd-va;
ISLENT'YEVA, P.G., tekhn. red.

[Quality of thin steel sheets] Kachestvo tonkikh stal'nykh
listov. Moskva, Izd-vo Metallurgiia, 1964. 174 p.
(MIRA 17:4)

BENYAKOVSKIY, Mark Aleksandrovich; DENEZHENIN, Boris Semeyevich;
CHUKHLOVA, Lyudmila Nikolayevna; BUTYRKINA, Larisa
Il'инична; RYNOV, V.A., red.

[Quality of sheet surfaces] Kachestvo poverkhnosti listov.
Moskva, Izd-vo "Metallurgija," 1964. 53 p. (MIRA 17:7)

BENYAKOVSKIY, M.A.; BUTYLKINA, L.I.; NASIBULLIN, A.F.; MEL'NIKOV, O.M.

Preheating the working rolls of the 2800/1700 mill. Metallurg
9 no.5:32-33 My '64. (MIFA 17:8)

1. Cherepovetskiy metallurgicheskiy zavod.

BENYAKOVSKIY, Mark Aleksandrovich; BROVMAN, Mikhail Yakovlevich.
Prinimal uchastiye RADCHENKO, K.M.

[Using tensiometry in rolling mill practice] Primenenie
tenzometrii v prokatke. Moskva, Metallurgija, 1965. 143 p.
(MIRA 18:4)

BENYAKOVSKIY, M.A.; GRINBERG, D.L.; GUTIK, M.V.

Designing continuous plating units. Metallurgist. No. 11, 1951
D. 164. (MLA 12-2)

1. Cherepovetskiy metallurgicheskiy zavod.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENYAKOVSKIY, M.A.; KOZHEVNIKOV, A.S.; CHUKHOVA, L.N.

Conditions for heating slabs. Metallurg 10 no.4:25 Ap '65. (MIRA 18:7)

1. Cherepovetskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

BENYAKOVSKIY, M.A.; BUTYLKINA, L.I.

Efficient conditions for the skin press rolling of strip.
Metallurg 10 no.5:32 My '65.
(MIRA 18:6)

1. Cherepovetskiy metallurgicheskiy zavod.

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RECORDED AND INDEXED, R.D.; FILED, R.D.

• (Handwritten markings, only known)

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BENYAKOVSKIY, M.A.; GUTNIK, M.V.; TCHERPOV, G.M.; KOTELNIKA, I.I.;
REUTOV, Yu.G.; SHIEMANOVICH, B.A.; FEDOTOV, I.A.; VAGNIN, S.A.

Mastering the operation of the plant for cold-rolled sheet production.
Stal' 25 no.8:726-730 Ag '65. (MIA 18:S)

1. Cherepovetskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

L 29691-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/T/EWP(l)/EWP(v)/EWP(t)/ETI IJP(c) JD/HM
ACC NR: AP6006810 SOURCE CODE: UR/0130/65/000/011/0050/0052

AUTHORS: Benyakovskiy, M. A.; Savvin, M. V.; Zaytseva, Z. I.

44
42

ORG: Cherepovetsk Metallurgical Factory (Cherepovetskiy metallurgicheskiy zavod) B

TITLE: Modification of butt welding machine 1700

SOURCE: Metallurg, no. 11, 1965, 50-52

TOPIC TAGS: pickling, steel alloy, sheet metal, welding, inspection,
butt welding, welding equipment, seam welding/1700 butt welding machine,
08-10kp steel alloy, st 1-3kp steel alloy

ABSTRACT: To decrease the number of broken (in 1964: 61.7% for 2.75 mm sheet; 31.7% for 2.75; 29.5 for 3.0; 22.5 for 3.5, and 12.1 for 4.5 mm) and defective (30.4; 24.9; 19.9; 20.4, and 11.1% respectively) welds in the pickling of 08-10kp and St 1-3kp steel alloy sheets, the welding parameters were investigated and machine 1700 was modified. After testing the butt welds produced under different welding regimes and establishing the correct operating ranges, a more stringent tolerance on allowed electrode wear (1000--1200 seams) was established, and several changes on the machine were performed. These included raising of the inlet scrapers, decreasing the seam height, optimizing the seam trimmer, adding guiding rolls, etc. As a result of these changes, the incidence of defective welds has been reduced by a factor of ≈ 2.5 to 7.4--8.6%. The metallographical investigations were performed

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29691-66

ACC NR: AP6008810

by A. P. Palkina directed by V. S. D'yakonova. Orig. art. has: 1 figure and 1
table. 2

SUB CODE: 13/

SUBM DATE: none

Card 2/2 1c

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CIA-RDP86-00513R000200020009-8"

SCOURCE CODE: UR/0130/66/000/003/0027/0028

ACC NR: AP6021713

AUTHOR: Monid, A. G.; Benyakovskiy, M. A.; Smolyarenko, D. A.; Sivtsov, G. V.;
Tkachenko, E. V.; D'yakonova, V. S.; Popov, P. I.; Pakudin, V. P.; Shirinskaya, S. A.;
Sosipatrov, V. T.

ORG: none

TITLE: Production testing of 08Yu cold rolled low carbon steel

SOURCE: Metallurg, no. 3, 1966, 27-28

TOPIC TAGS: low carbon steel, deoxidation, cold rolling, quality control / 08Yu steel

ABSTRACT: Production testing was carried out on nonaging 08Yu steel sheets at the Cherepovetsky Metallurgical Plant and the results were compared to the norms set by GOST 9045-59. Melting was carried out in single-grooved Martens furnaces of average capacity; deoxidation by ferromanganese was done in steps--50% in the furnace and 50% in the ladle; Al was also introduced in the ladle in quantities of 100-150 g/T of steel while full deoxidation was accomplished by the addition of Al pellets in quantities of 900-1000 g/T. The chemical composition of 08Yu steel compared favorably with the standards set by GOST 9045-59 (experimentally--C=0.04-0.08%, Si=0.01%, Mn=0.32-0.38%, S=0.009-0.016%, P=0.01-0.015%, Cr=0.01-0.03%, Ni=0.03-0.07%, Cu=0.02-0.07% and Al=0.02-0.05%). Ingots weighing 14T were hot rolled in 15-18 passes into slabs of

UDC: 621.771.24

Card 1/2

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ACC NR: AP6021713

3

.135-140 mm thickness and 1070-1430 mm width on a 1150 bloom. These slabs were next cold rolled to a maximum of 68% reduction into sheets of 2.5-3.5 mm thickness and 1040-1430 mm width. Annealing was done at 550°C for 10 hrs. at a heating rate of 15°/hr and cooling was at 6°/hr. The final operation was a finishing pass at 1.0-1.3% reduction. Tests made on the sheets after aging at 200°C for 30 min substantiated that the steel was nonaging. The sheets performed well in stamping tests which were run under the stamping conditions used at the Gor'ky Automotive Plant. Orig. art. has: 1 table.

SUB CODE: 11,14/ SUBM DATE: none

Card 2/2 11 S

AM5015046

BOOK EXPLOITATION

UR/

Bonyakovskiy, Mark Aleksandrovich; Brownman, Mikhail Yakovlevich

The application of tensometry in rolling (Primenenie tenzometrii v prokatke)
[Moscow] Izd-vo Metallurgiya, 1965. | 143 p. illus., biblio. 2787 copies
printed. Editor of the publishing house: V. K. Shlepov; Technical editor:
G. M. En'yakova.

TOPIC TAGS: rolling, strain gage, tensometry

PURPOSE AND COVERAGE: This book was intended for technologists, designers, and engineers and technicians in metallurgical and machine-building plants. It can be used also by students specializing in the mechanical equipment of rolling mills and in the technique of rolling. Design principles, manufacturing methods, and conditions of application of instruments for measuring the pressure of the metal on the roll, the rolling moment, and the tensile forces of the strip on rolling mills are outlined. Auxiliary equipment is described and methods of connecting it are discussed. K. M. Radchenko assisted in writing Chapter IV.

Cord 1/2

UDC: 621.7'1.2

AM5015046

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Ch. II. Systems for connecting gages and measurement technology -- 11
Ch. III. Measuring rolling forces and moments -- 37
Ch. IV. Measuring strip tension -- 70
Ch. V. Investigation of power conditions for deforming metal on <u>sheet rolling</u> mills -- 119
Literature -- 143

SUB CODE: 13 /SUBM DATE: 14Jan65 /SOV REF: 028 /OTH REF: 006

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8

BENYAKOVSKIY, M.Kh., kand. fiz.-mat.nauk

Energy changes in crystal lattices and fatigue of metals.
Trudy Khab. IIT no.10:79-84 '59. (MIRA 12:7)
(Crystal lattices) (Metals--Fatigue)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020009-8"

the first stage of consideration the leading sentence (alliteration-pronouns) is tested out to produce of the main four considerations in the second and first stage system in combination with phrasal states. (8)

1

BENYAMINOV, A. N.

Information obtained by the offices of the Central Office of Intelligence, the FBI, and other Federal law enforcement and investigation agencies that the following individual, identified as a Soviet citizen, has been identified as having been a member of the KGB and as having been employed at the Central Genetic Fruit and Berry Research Institute, Moscow, Russia, during the period of 1947-1950.

Name	Title or Work	Employment
Benyaminov, A. N.	"Varieties of Fruit and Berry Crops"	Central Genetic Fruit and Berry Laboratory 1947-1950 L. V. Mtsaria

BEN'YAMINOV, A. N.

USSR/Agriculture - Fruit growing

Card 1/1 : Pub. 86 - 21/36

Authors : Ben'yaminov, A. N., Prof.

Title : The apricot in the middle zone

Periodical : Priroda 43/8, 109-111, Aug 1954

Abstract : The efforts of Russia's top arboriculturist, I. V. Michurin, to acclimate the apricot tree are recounted. A major obstacle was found to be the weakening of the bark through dampness, which makes the tree incapable of withstanding cold. Grafting was found to be an effective method of overcoming this obstacle, as well as the production of the proper hybrids. Illustrations.

Institution : ...

Submitted : ...